

NCERT *Solutions* MATHS

Chapter 2 : Fractions And Decimals

Class
7



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Chapter 2

Fractions Decimals

Exercise 2.1

Question 1:

Which of the drawings (a) to (d) show:

(i) $2 \times \frac{1}{5}$ (ii) $2 \times \frac{1}{2}$ (iii) $3 \times \frac{2}{3}$ (iv) $3 \times \frac{1}{4}$

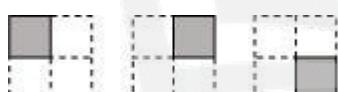
(a)



(b)



(c)



(d)



Answer:

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(i) $2 \times \frac{1}{5}$ represents addition of 2 figures, each representing 1 shaded part out of 5 equal parts. Hence, $2 \times \frac{1}{5}$ is represented by (d).

(ii) $2 \times \frac{1}{2}$ represents addition of 2 figures, each representing 1 shaded part out of 2 equal parts. Hence, $2 \times \frac{1}{2}$ is represented by (b).

(iii) $3 \times \frac{2}{3}$ represents addition of 3 figures, each representing 2 shaded parts out of 3 equal parts. Hence, $3 \times \frac{2}{3}$ is represented by (a).

(iv) $3 \times \frac{1}{4}$ represents addition of 3 figures, each representing 1 shaded part out of 4 equal parts. Hence, $3 \times \frac{1}{4}$ is represented by (c).

Question 2:

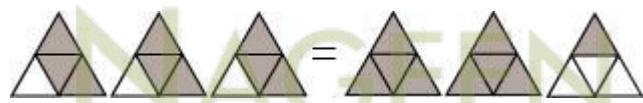
Some pictures (a) to (c) are given below. Tell which of them show:

$$(i) 3 \times \frac{1}{5} = \frac{3}{5} \quad (ii) 2 \times \frac{1}{3} = \frac{2}{3} \quad (iii) 3 \times \frac{3}{4} = 2 \frac{1}{4}$$

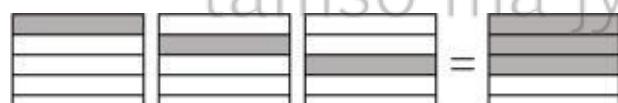
(a)



(b)



(c)



Answer:

(i) $3 \times \frac{1}{5}$ represents the addition of 3 figures, each representing 1 shaded part out of 5 equal parts and $\frac{3}{5}$ represents 3 shaded parts out of 5 equal parts. Hence, $3 \times \frac{1}{5} = \frac{3}{5}$ is represented by (c).

(ii) $2 \times \frac{1}{3}$ represents the addition of 2 figures, each representing 1 shaded part out of 3 equal parts and $\frac{2}{3}$ represents 2 shaded parts out of 3 equal parts. Hence, $2 \times \frac{1}{3} = \frac{2}{3}$ is represented by (a).

(iii) $3 \times \frac{3}{4}$ represents the addition of 3 figures, each representing 3 shaded parts out of 4 equal parts and $2\frac{1}{4}$ represents 2 fully shaded figures and one figure having 1 part as shaded out of 4 equal parts. Hence, $3 \times \frac{3}{4} = 2\frac{1}{4}$ is represented by (b)

Question 3:

Multiply and reduce to lowest form and convert into a mixed fraction:

(i) $7 \times \frac{3}{5}$ (ii)

(iii) $4 \times \frac{1}{3}$

(iv) $2 \times \frac{6}{7}$

(v) $\frac{2}{3} \times 4$ (vi)

(vii) $\frac{5}{2} \times 6$

(viii) $11 \times \frac{4}{7}$

(ix) $13 \times \frac{1}{3}$ (x)

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$$15 \times \frac{3}{5}$$

Answer:

(i) $7 \times \frac{3}{5} = \frac{21}{5} = 4\frac{1}{5}$

(ii) $4 \times \frac{1}{3} = \frac{4}{3} = 1\frac{1}{3}$

(iii) $2 \times \frac{6}{7} = \frac{12}{7} = 1\frac{5}{7}$

(iv) $5 \times \frac{2}{9} = \frac{10}{9} = 1\frac{1}{9}$

(v) $\frac{2}{3} \times 4 = \frac{8}{3} = 2\frac{2}{3}$

(vi) $\frac{5}{2} \times 6 = 15$

(vii) $11 \times \frac{4}{7} = \frac{44}{7} = 6\frac{2}{7}$

(viii) $20 \times \frac{4}{5} = 16$

(ix) $13 \times \frac{1}{3} = \frac{13}{3} = 4\frac{1}{3}$

(x) $15 \times \frac{3}{5} = 9$ tamso ma jyotirgamaya

Question 4:

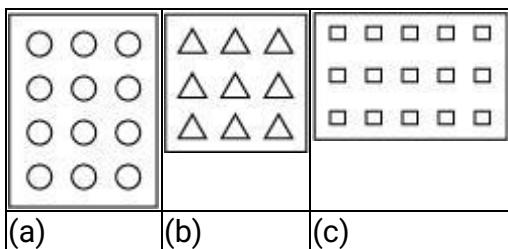
Shade:

(i) $\frac{1}{2}$ of the circles in box (a) (ii) $\frac{2}{3}$ of the triangles in box (b)

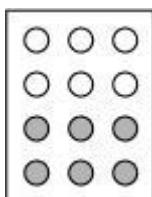
(iii) $\frac{3}{5}$ of the squares in box (c)



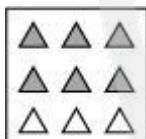
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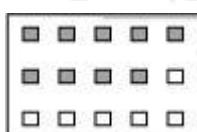
(i) It can be observed that there are 12 circles in the given box. We have to shade $\frac{1}{2}$ of the circles in it. As $12 \times \frac{1}{2} = 6$, therefore, we will shade any 6 circles of it. **Answer:**



(ii) It can be observed that there are 9 triangles in the given box. We have to shade $\frac{2}{3}$ of the triangles in it. As $9 \times \frac{2}{3} = 6$, therefore, we will shade any 6 triangles of it.



(iii) It can be observed that there are 15 squares in the given box. We have to shade $\frac{3}{5}$ of the squares in it. As $\frac{3}{5} \times 15 = 9$, therefore, we will shade any 9 squares of it.



Question 5:

Find:

(a) $\frac{1}{2}$ of (i) 24 (ii) 46

(b) $\frac{2}{3}$ of (i) 18 (ii) 27

(c) $\frac{3}{4}$ of (i) 16 (ii) 36

(d) $\frac{4}{5}$ of (i) 20 (ii) 35

Answer:

(a) (i) $\frac{1}{2} \times 24 = 12$

(ii) $\frac{1}{2} \times 46 = 23$

(b) (i) $\frac{2}{3} \times 18 = 12$

(ii) $\frac{2}{3} \times 27 = 18$

(c) (i) $\frac{3}{4} \times 16 = 12$

(ii) $\frac{3}{4} \times 36 = 27$

(d) (i) $\frac{4}{5} \times 20 = 16$

(ii) $\frac{4}{5} \times 35 = 28$

Question 6:

Multiply and express as a mixed fraction:

(a) $3 \times 5 \frac{1}{5}$ (b) $5 \times 6 \frac{3}{4}$



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$$(c) 7 \times 2 \frac{1}{4} \quad (d) 4 \times 6 \frac{1}{3}$$

$$(e) 3 \frac{1}{4} \times 6 \quad (f) 3 \frac{2}{5} \times 8$$

Answer:

$$(a) 3 \times 5 \frac{1}{5} = 3 \times \frac{26}{5} = \frac{78}{5} = 15 \frac{3}{5}$$

$$(b) 5 \times 6 \frac{3}{4} = 5 \times \frac{27}{4} = \frac{135}{4} = 33 \frac{3}{4}$$

$$(c) 7 \times 2 \frac{1}{4} = 7 \times \frac{9}{4} = \frac{63}{4} = 15 \frac{3}{4}$$

$$(d) 4 \times 6 \frac{1}{3} = 4 \times \frac{19}{3} = \frac{76}{3} = 25 \frac{1}{3}$$

$$(e) 3 \frac{1}{4} \times 6 = \frac{13}{4} \times 6 = \frac{78}{4} = \frac{39}{2} = 19 \frac{1}{2}$$

$$(f) 3 \frac{2}{5} \times 8 = \frac{17}{5} \times 8 = \frac{136}{5} = 27 \frac{1}{5}$$

Question 7:

$$\text{Find (a) } \frac{1}{2} \text{ of (i) } 2 \frac{3}{4} \text{ (ii) } 4 \frac{2}{9} \text{ (b) } \frac{5}{8} \text{ of (i) } 3 \frac{5}{6} \text{ (ii) } 9 \frac{2}{3}$$

Answer:

$$(a) (i) \frac{1}{2} \times 2 \frac{3}{4} = \frac{1}{2} \times \frac{11}{4} = \frac{11}{8} = 1 \frac{3}{8}$$

$$(ii) \frac{1}{2} \times 4 \frac{2}{9} = \frac{1}{2} \times \frac{38}{9} = \frac{19}{9} = 2 \frac{1}{9}$$

$$(b) (i) \frac{5}{8} \times 3 \frac{5}{6} = \frac{5}{8} \times \frac{23}{6} = \frac{115}{48} = 2 \frac{19}{48}$$

$$(ii) \frac{5}{8} \times 9\frac{2}{3} = \frac{5}{8} \times \frac{29}{3} = \frac{145}{24} = 6\frac{1}{24}$$

Question 8:

Vidya and Pratap went for a picnic. Their mother gave them a water bottle that contained 5 litres of water. Vidya consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water.

- (i) How much water did Vidya drink?
- (ii) What fraction of the total quantity of water did Pratap drink?

Answer:

(i) Water consumed by Vidya = $\frac{2}{5}$ of 5 litres
 $= \frac{2}{5} \times 5 = 2$ litres

(ii) Water consumed by Pratap = $1 - \frac{2}{5} = \frac{3}{5}$ of the total water

Exercise 2.2

Question 1:

Find:

(i) $\frac{1}{4}$ of (a) $\frac{1}{4}$ (b) $\frac{3}{5}$ (c) $\frac{4}{3}$

(ii) $\frac{1}{7}$ of (a) $\frac{2}{9}$ (b) $\frac{6}{5}$ (c) $\frac{3}{10}$

Answer:

(i) (a) $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$

(b) $\frac{1}{4} \times \frac{3}{5} = \frac{3}{20}$

$$(c) \frac{1}{4} \times \frac{4}{3} = \frac{1}{3}$$

$$(ii) (a) \frac{1}{7} \times \frac{2}{9} = \frac{2}{63}$$

$$(b) \frac{1}{7} \times \frac{6}{5} = \frac{6}{35}$$

$$(c) \frac{1}{7} \times \frac{3}{10} = \frac{3}{70}$$

Question 2:

Multiply and reduce to lowest form (if possible):

$$(i) \frac{2}{3} \times 2\frac{2}{3} \quad (ii) \frac{2}{7} \times \frac{7}{9} \quad (iii) \frac{3}{8} \times \frac{6}{4}$$

$$(iv) \frac{9}{5} \times \frac{3}{5} \quad (v) \frac{1}{3} \times \frac{15}{8} \quad (vi) \frac{11}{2} \times \frac{3}{10}$$

$$(vii) \frac{4}{5} \times \frac{12}{7}$$

Answer:

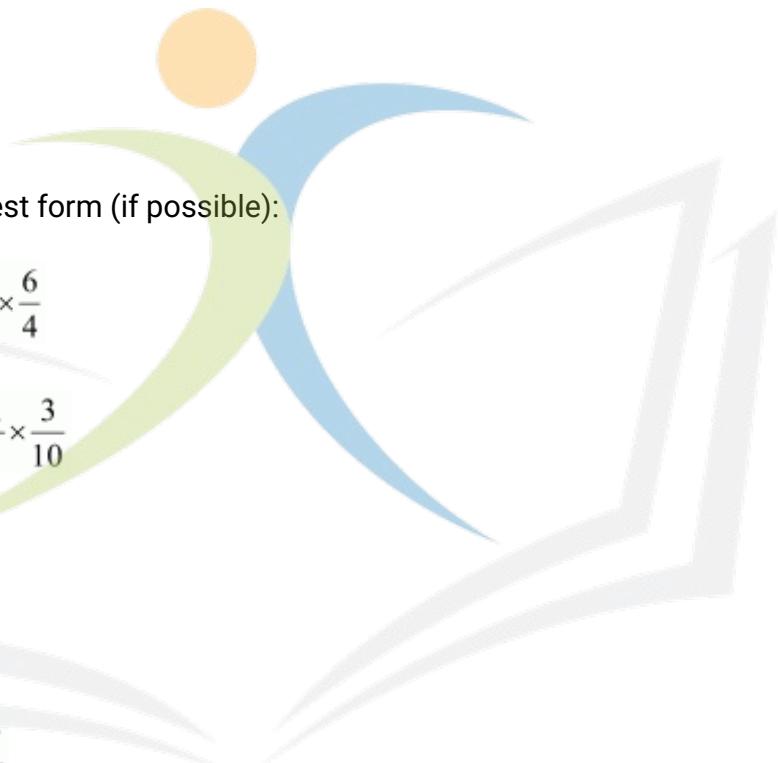
$$(i) \frac{2}{3} \times 2\frac{2}{3} = \frac{2}{3} \times \frac{8}{3} = \frac{16}{9} = 1\frac{7}{9}$$

$$(ii) \frac{2}{7} \times \frac{7}{9} = \frac{2}{9}$$

$$(iii) \frac{3}{8} \times \frac{6}{4} = \frac{9}{16}$$

$$(iv) \frac{9}{5} \times \frac{3}{5} = \frac{27}{25} = 1\frac{2}{25}$$

$$(v) \frac{1}{3} \times \frac{15}{8} = \frac{5}{8}$$



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$$(vi) \frac{11}{2} \times \frac{3}{10} = \frac{33}{20} = 1\frac{13}{20}$$

$$(vii) \frac{4}{5} \times \frac{12}{7} = \frac{48}{35} = 1\frac{13}{35}$$

Question 3:

Multiply the following fractions:

$$(i) \frac{2}{5} \times 5\frac{1}{4} \quad (ii) 6\frac{2}{5} \times \frac{7}{9} \quad (iii) \frac{3}{2} \times 5\frac{1}{3}$$

$$(iv) \frac{5}{6} \times 2\frac{3}{7} \quad (v) 3\frac{2}{5} \times \frac{4}{7} \quad (vi) 2\frac{3}{5} \times 3$$

$$(vii) 3\frac{4}{7} \times \frac{3}{5}$$

Answer:

$$(i) \frac{2}{5} \times 5\frac{1}{4} = \frac{2}{5} \times \frac{21}{4} = \frac{21}{10}$$

This is an improper fraction and it can be written as a mixed fraction as $2\frac{1}{10}$.

$$(ii) 6\frac{2}{5} \times \frac{7}{9} = \frac{32}{5} \times \frac{7}{9} = \frac{224}{45}$$

This is an improper fraction and it can be written as a mixed fraction as $4\frac{44}{45}$.

$$(iii) \frac{3}{2} \times 5\frac{1}{3} = \frac{3}{2} \times \frac{16}{3} = 8$$

This is a whole number.

$$(iv) \frac{5}{6} \times 2\frac{3}{7} = \frac{5}{6} \times \frac{17}{7} = \frac{85}{42}$$

This is an improper fraction and it can be written as a mixed fraction as $2\frac{1}{42}$.

$$(v) 3\frac{2}{5} \times \frac{4}{7} = \frac{17}{5} \times \frac{4}{7} = \frac{68}{35}$$

This is an improper fraction and it can be written as a mixed fraction as $1\frac{33}{35}$.

$$(vi) 2\frac{3}{5} \times 3 = \frac{13}{5} \times 3 = \frac{39}{5}$$

This is an improper fraction and it can be written as a mixed fraction as $7\frac{4}{5}$.

$$(vii) 3\frac{4}{7} \times \frac{3}{5} = \frac{25}{7} \times \frac{3}{5} = \frac{15}{7}$$

This is an improper fraction and it can be written as a mixed fraction as $2\frac{1}{7}$.

Question 4:

Which is greater:

(i) $\frac{2}{7}$ of $\frac{3}{4}$ or $\frac{3}{5}$ of $\frac{5}{8}$

(ii) $\frac{1}{2}$ of $\frac{6}{7}$ or $\frac{2}{3}$ of $\frac{3}{7}$

Answer:

(i) $\frac{2}{7} \times \frac{3}{4} = \frac{3}{14}$

$\frac{3}{5} \times \frac{5}{8} = \frac{3}{8}$ tamso ma jyotirgamaya

Converting these fractions into like fractions,

$$\frac{3}{14} = \frac{3 \times 4}{14 \times 4} = \frac{12}{56}$$

$$\frac{3}{8} = \frac{3 \times 7}{8 \times 7} = \frac{21}{56}$$

Since $\frac{21}{56} > \frac{12}{56}$,

$$\therefore \frac{3}{8} > \frac{3}{14}$$

Therefore, $\frac{3}{5}$ of $\frac{5}{8}$ is greater.

$$(ii) \frac{1}{2} \times \frac{6}{7} = \frac{3}{7}$$

$$\frac{2}{3} \times \frac{3}{7} = \frac{2}{7}$$

Since $3 > 2$,

$$\therefore \frac{3}{7} > \frac{2}{7}$$

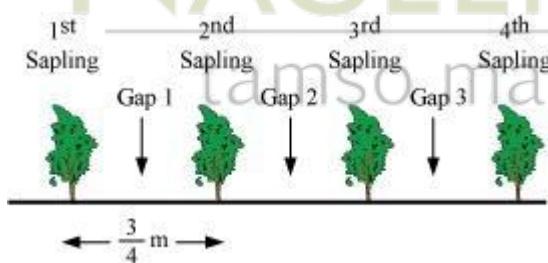
Therefore, $\frac{1}{2}$ of $\frac{6}{7}$ is greater.

Question 5:

Saili plants 4 saplings, in a row, in her garden. The distance between two adjacent

saplings is $\frac{3}{4}$ m. Find the distance between the first and the last sapling.

Answer:



From the figure, it can be observed that gaps between 1st and last sapling = 3

$$\text{Length of 1 gap} = \frac{3}{4} \text{ m}$$

$$\text{Therefore, distance between I and IV sapling} = 3 \times \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4} \text{ m}$$

Question 6:

Lipika reads a book for $1\frac{3}{4}$ hours everyday. She reads the entire book in 6 days. How many hours in all were required by her to read the book?

Answer:

$$\text{Number of hours Lipika reads the book per day} = 1\frac{3}{4} = \frac{7}{4} \text{ hours}$$

$$\text{Number of days} = 6$$

$$\text{Total number of hours required by her to read the book} = \frac{7}{4} \times 6$$

$$= \frac{21}{2} = 10\frac{1}{2} \text{ hours}$$

Question 7:

A car runs 16 km using 1 litre of petrol. How much distance will it cover using $2\frac{3}{4}$ litres of petrol.

Answer:

$$\text{Number of kms a car can run per litre petrol} = 16 \text{ km}$$

$$\text{Quantity of petrol} = 2\frac{3}{4} \text{ L} = \frac{11}{4} \text{ L}$$

$$\text{Number of kms a car can run for } \frac{11}{4} \text{ litre petrol} = \frac{11}{4} \times 16 = 44 \text{ km}$$

It will cover 44 km distance by using $2\frac{3}{4}$ litres of petrol.

Question 8:

$$\text{(a) (i) Provide the number in the box } \square, \text{ such that } \frac{2}{3} \times \square = \frac{10}{30}.$$

(ii) The simplest form of the number obtained in \square is _____.

(b) (i) Provide the number in the box \square , such that $\frac{3}{5} \times \square = \frac{24}{75}$?

(ii) The simplest form of the number obtained in \square is _____.

Answer:

(a) (i) As $\frac{2}{3} \times \frac{5}{10} = \frac{10}{30}$,

Therefore, the number in the box \square , such that $\frac{2}{3} \times \square = \frac{10}{30}$ is

$\frac{5}{10}$.

(ii) The simplest form of $\frac{5}{10}$ is $\frac{1}{2}$.

(b) (i) As $\frac{3}{5} \times \frac{8}{15} = \frac{24}{75}$,

Therefore, the number in the box \square , such that $\frac{3}{5} \times \square = \frac{24}{75}$ is

$\frac{8}{15}$.

(ii) As $\frac{8}{15}$ cannot be further simplified, therefore, its simplest form is $\frac{8}{15}$

Exercise 2.3

Question 1:

Find:

(i) $12 \div \frac{3}{4}$ (ii) $14 \div \frac{5}{6}$ (iii) $8 \div \frac{7}{3}$

(iv) $4 \div \frac{8}{3}$ (v) $3 \div 2\frac{1}{3}$ (vi) $5 \div 3\frac{4}{7}$

Answer:

(i) $12 \div \frac{3}{4} = 12 \times \frac{4}{3} = 16$

(ii) $14 \div \frac{5}{6} = 14 \times \frac{6}{5} = \frac{84}{5}$

(iii) $8 \div \frac{7}{3} = 8 \times \frac{3}{7} = \frac{24}{7}$

(iv) $4 \div \frac{8}{3} = 4 \times \frac{3}{8} = \frac{3}{2}$

(v) $3 \div 2\frac{1}{3} = 3 \div \frac{7}{3} = 3 \times \frac{3}{7} = \frac{9}{7}$

(vi) $5 \div 3\frac{4}{7} = 5 \div \frac{25}{7} = 5 \times \frac{7}{25} = \frac{7}{5}$

Question 2:

Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

(i) $\frac{3}{7}$ (ii) $\frac{5}{8}$ (iii) $\frac{9}{7}$

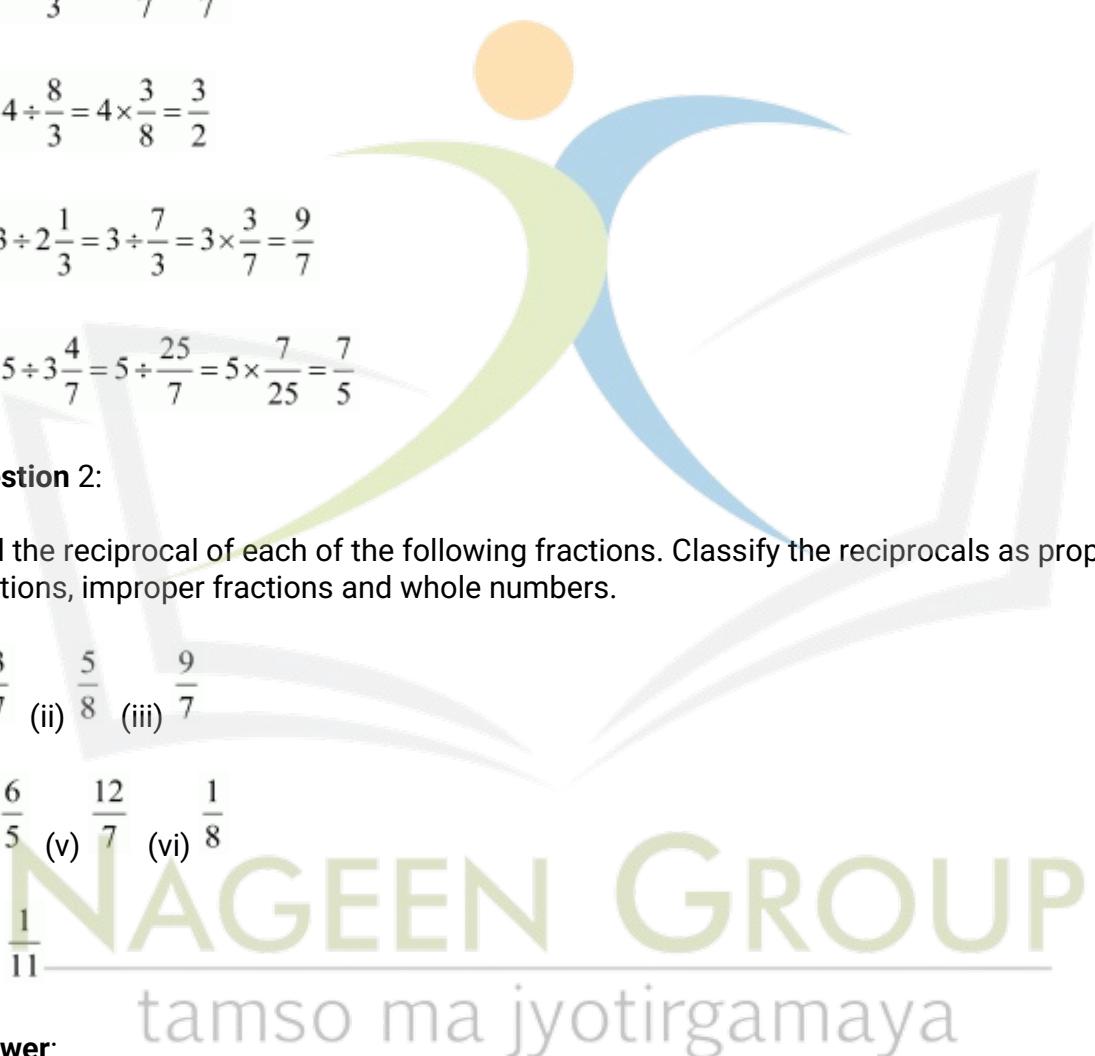
(iv) $\frac{6}{5}$ (v) $\frac{12}{7}$ (vi) $\frac{1}{8}$

(vii) $\frac{1}{11}$

Answer:

A proper fraction is the fraction which has its denominator greater than its numerator while improper fraction is the fraction which has its numerator greater than its denominator. Whole numbers are a collection of all positive integers including 0.

(i) $\frac{3}{7}$



$$\text{Reciprocal} = \frac{7}{3}$$

Therefore, it is an improper fraction.

$$(ii) \frac{5}{8}$$

$$\text{Reciprocal} = \frac{8}{5}$$

Therefore, it is an improper fraction.

$$(iii) \frac{9}{7}$$

$$\text{Reciprocal} = \frac{7}{9}$$

Therefore, it is a proper fraction.

$$(iv) \frac{6}{5}$$

$$\text{Reciprocal} = \frac{5}{6}$$

Therefore, it is a proper fraction.

$$(v) \frac{12}{7}$$

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$$\text{Reciprocal} = \frac{7}{12}$$

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Therefore, it is a proper fraction.

$$(vi) \frac{1}{8}$$

$$\text{Reciprocal} = \frac{8}{1}$$

Therefore, it is a whole number.

(vii) $\frac{1}{11}$

Reciprocal = $\frac{11}{1}$

Therefore, it is a whole number.

Question 3:

Find:

(i) $\frac{7}{3} \div 2$ (ii) $\frac{4}{9} \div 5$ (iii) $\frac{6}{13} \div 7$

(iv) $4\frac{1}{3} \div 3$ (v) $3\frac{1}{2} \div 4$ (vi) $4\frac{3}{7} \div 7$

Answer:

(i) $\frac{7}{3} \div 2 = \frac{7}{3} \times \frac{1}{2} = \frac{7}{6}$

(ii) $\frac{4}{9} \div 5 = \frac{4}{9} \times \frac{1}{5} = \frac{4}{45}$

(iii) $\frac{6}{13} \div 7 = \frac{6}{13} \times \frac{1}{7} = \frac{6}{91}$

(iv) $4\frac{1}{3} \div 3 = \frac{13}{3} \div 3 = \frac{13}{3} \times \frac{1}{3} = \frac{13}{9}$

(v) $3\frac{1}{2} \div 4 = \frac{7}{2} \div 4 = \frac{7}{2} \times \frac{1}{4} = \frac{7}{8}$

(vi) $4\frac{3}{7} \div 7 = \frac{31}{7} \times \frac{1}{7} = \frac{31}{49}$

Question 4:

Find:

(i) $\frac{2}{5} \div \frac{1}{2}$ (ii) $\frac{4}{9} \div \frac{2}{3}$ (iii) $\frac{3}{7} \div \frac{8}{7}$

$$(iv) 2\frac{1}{3} \div \frac{3}{5} \quad (v) 3\frac{1}{2} \div \frac{8}{3} \quad (vi) \frac{2}{5} \div 1\frac{1}{2}$$

$$(vii) 3\frac{1}{5} \div 1\frac{2}{3} \quad (viii) 2\frac{1}{5} \div 1\frac{1}{5}$$

Answer:

$$(i) \frac{2}{5} \div \frac{1}{2} = \frac{2}{5} \times 2 = \frac{4}{5}$$

$$(ii) \frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \times \frac{3}{2} = \frac{2}{3}$$

$$(iii) \frac{3}{7} \div \frac{8}{7} = \frac{3}{7} \times \frac{7}{8} = \frac{3}{8}$$

$$(iv) 2\frac{1}{3} \div \frac{3}{5} = \frac{7}{3} \div \frac{3}{5} = \frac{7}{3} \times \frac{5}{3} = \frac{35}{9}$$

$$(v) 3\frac{1}{2} \div \frac{8}{3} = \frac{7}{2} \div \frac{8}{3} = \frac{7}{2} \times \frac{3}{8} = \frac{21}{16}$$

$$(vi) \frac{2}{5} \div 1\frac{1}{2} = \frac{2}{5} \div \frac{3}{2} = \frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$$

$$(vii) 3\frac{1}{5} \div 1\frac{2}{3} = \frac{16}{5} \div \frac{5}{3} = \frac{16}{5} \times \frac{3}{5} = \frac{48}{25}$$

$$(viii) 2\frac{1}{5} \div 1\frac{1}{5} = \frac{11}{5} \div \frac{6}{5} = \frac{11}{5} \times \frac{5}{6} = \frac{11}{6}$$

Exercise 2.4

Question 1:

Find:

- (i) 0.2×6 (ii) 8×4.6 (iii) 2.71×5
- (iv) 20.1×4 (v) 0.05×7 (vi) 211.02×4
- (vii) 2×0.86

Answer:

$$(i) 0.2 \times 6 = \frac{2}{10} \times 6 = \frac{12}{10} = 1.2$$

$$(ii) 8 \times 4.6 = 8 \times \frac{46}{10} = \frac{368}{10} = 36.8$$

$$(iii) 2.71 \times 5 = \frac{271}{100} \times 5 = \frac{1355}{100} = 13.55$$

$$(iv) 20.1 \times 4 = \frac{201}{10} \times 4 = \frac{804}{10} = 80.4$$

$$(v) 0.05 \times 7 = \frac{5}{100} \times 7 = \frac{35}{100} = 0.35$$

$$(vi) 211.02 \times 4 = \frac{21102}{100} \times 4 = \frac{84408}{100} = 844.08$$

$$(vii) 2 \times 0.86 = 2 \times \frac{86}{100} = \frac{172}{100} = 1.72$$

Question 2:

Find the area of rectangle whose length is 5.7 cm and breadth is 3 cm.

Answer:

Length = 5.7 cm

Breadth = 3 cm

Area = Length \times Breadth

$$= 5.7 \times 3 = 17.1 \text{ cm}^2$$

Question 3:

Find:

$$(i) 1.3 \times 10 (ii) 36.8 \times 10 (iii) 153.7 \times 10$$

$$(iv) 168.07 \times 10 (v) 31.1 \times 100 (vi) 156.1 \times 100$$

$$(vii) 3.62 \times 100 (viii) 43.07 \times 100 (ix) 0.5 \times 10$$

(x) 0.08×10 (xi) 0.9×100 (xii) 0.03×1000

Answer:

We know that when a decimal number is multiplied by 10, 100, 1000, the decimal point in the product is shifted to the right by as many places as there are zeroes. Therefore, these products can be calculated as

- (i) $1.3 \times 10 = 13$
- (ii) $36.8 \times 10 = 368$
- (iii) $153.7 \times 10 = 1537$
- (vi) $168.07 \times 10 = 1680.7$
- (v) $31.1 \times 100 = 3110$
- (vi) $156.1 \times 100 = 15610$
- (vii) $3.62 \times 100 = 362$
- (viii) $43.07 \times 100 = 4307$
- (ix) $0.5 \times 10 = 5$
- (x) $0.08 \times 10 = 0.8$
- (xi) $0.9 \times 100 = 90$
- (xiii) $0.03 \times 1000 = 30$

Question 4:

A two-wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?

Answer:

Distance covered in 1 litre of petrol = 55.3 km

Distance covered in 10 litre of petrol = $10 \times 55.3 = 553$ km

Therefore, it will cover 553 km distance in 10 litre petrol.

Question 5:

Find:

- (i) 2.5×0.3 (ii) 0.1×51.7 (iii) 0.2×316.8

(iv) 1.3×3.1 (v) 0.5×0.05 (vi) 11.2×0.15
 (vii) 1.07×0.02 (viii) 10.05×1.05 (ix) 101.01×0.01
 (x) 100.01×1.1

Answer:

$$(i) 2.5 \times 0.3 = \frac{25}{10} \times \frac{3}{10} = \frac{75}{100} = 0.75$$

$$(ii) 0.1 \times 51.7 = \frac{1}{10} \times \frac{517}{10} = \frac{517}{100} = 5.17$$

$$(iii) 0.2 \times 316.8 = \frac{2}{10} \times \frac{3168}{10} = \frac{6336}{100} = 63.36$$

$$(iv) 1.3 \times 3.1 = \frac{13}{10} \times \frac{31}{10} = \frac{403}{100} = 4.03$$

$$(v) 0.5 \times 0.05 = \frac{5}{10} \times \frac{5}{100} = \frac{25}{1000} = 0.025$$

$$(vi) 11.2 \times 0.15 = \frac{112}{10} \times \frac{15}{100} = \frac{1680}{1000} = 1.680 = 1.68$$

$$(vii) 1.07 \times 0.02 = \frac{107}{100} \times \frac{2}{100} = \frac{214}{10000} = 0.0214$$

$$(viii) 10.05 \times 1.05 = \frac{1005}{100} \times \frac{105}{100} = \frac{105525}{10000} = 10.5525$$

$$(ix) 101.01 \times 0.01 = \frac{10101}{100} \times \frac{1}{100} = \frac{10101}{10000} = 1.0101$$

$$(x) 100.01 \times 1.1 = \frac{10001}{100} \times \frac{11}{10} = \frac{110011}{1000} = 110.011$$

Exercise 2.5

(i) $0.4 \div 2$ (ii) $0.35 \div 5$
 (iii) $2.48 \div 4$ (iv) $65.4 \div 4$
 (v) $651.2 \div 4$ (vi) $14.49 \div 7$

(vii) $3.96 \div 4$ (viii) $0.80 \div 5$

Answer :

(i) We have,

$$0.4 \div 2$$

$$= \frac{4}{10} \div 2$$

$$= \frac{4}{10} \times \frac{1}{2}$$

$$= \frac{2}{10}$$

$$= 0.2$$

(ii) We have,

$$0.35 \div 5$$

$$= \frac{35}{100} \div 5$$

$$= \frac{35}{100} \times \frac{1}{5}$$

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$$= 0.07$$

(iii) We have,

$$2.48 \div 4$$

$$\begin{aligned} &= \frac{248}{100} \div 4 \\ &= \frac{248}{100} \times \frac{1}{4} \\ &= \frac{62}{100} \end{aligned}$$

$$\begin{aligned} &= \frac{62}{100} \\ &= 0.62 \end{aligned}$$

(iv) We have,

$$65.4 \div 6$$

$$\begin{aligned} &= \frac{654}{10} \div 6 \\ &= \frac{654}{10} \times \frac{1}{6} \\ &= \frac{109}{10} \end{aligned}$$

$$= 10.9$$

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(v) We have,

$$651.2 \div 4$$

$$= \frac{6512}{10} \div 4$$

$$= \frac{6512}{10} \times \frac{1}{4}$$

$$= \frac{1628}{10}$$

$$= 162.8$$

(vi) We have,

$$14.49 \div 7$$

$$= \frac{14.49}{100} \div 7$$

$$= \frac{1449}{100} \times \frac{1}{7}$$

$$= \frac{207}{100}$$

$$= 2.07$$

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(vii) We have,

$$3.96 \div 4$$

$$= \frac{396}{100} \div 4$$

$$= \frac{396}{100} \times \frac{1}{4}$$

$$= \frac{99}{100}$$

$$= 0.99$$

(viii) We have,

$$0.80 \div 5$$

$$= \frac{80}{100} \div 5$$

$$= \frac{80}{100} \times \frac{1}{5}$$

$$= \frac{16}{100}$$

$$= 0.16$$

2. Find:

- (i) $4.8 \div 10$ (ii) $52.5 \div 10$
- (iii) $0.7 \div 10$ (iv) $33.1 \div 10$
- (v) $272.23 \div 10$ (vi) $0.56 \div 10$

$$(vii) 3.97 \div 10$$

Answer:

(i) We have,

$$4.8 \div 10$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as

many as there are zeros in the number.

Therefore,

$$4.8 \div 10$$

$$= \frac{4.8}{10}$$

$$= 0.48$$

(ii) We have,

$$52.5 \div 10$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$52.5 \div 10$$

$$= 5.25$$

(iii) We have,

$$0.7 \div 10$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$0.7 \div 10$$

$$= \frac{0.7}{10}$$

$$= 0.07$$

(iv) We have,

$$33.1 \div 10$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$33.1 \div 10$$

$$= \frac{33.1}{10}$$

$$= 3.31$$

(v) We have,

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$$272.23 \div 10$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$272.23 \div 10$$

$$\begin{aligned} &= \frac{272.23}{10} \\ &= 27.223 \end{aligned}$$

(vi) We have,

$$0.56 \div 10$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$0.56 \div 10$$

$$\begin{aligned} &= \frac{0.56}{10} \\ &= 0.056 \end{aligned}$$

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(vii) We have,

$$3.97 \div 10$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$3.97 \div 10$$

$$= \frac{3.97}{10}$$
$$= 0.397$$

3. Find:

- (i) $2.7 \div 100$ (ii) $0.3 \div 100$
- (iii) $0.78 \div 100$ (iv) $432.6 \div 100$
- (v) $23.6 \div 100$ (vi) $98.53 \div 100$

Answer:

(i) We have,

$$2.7 \div 100$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$2.7 \div 100$$

$$= \frac{2.7}{100}$$
$$= 0.027$$

(ii) We have,

$$0.3 \div 100$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

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Therefore,

$$0.3 \div 100$$

$$= \frac{0.3}{100}$$
$$= 0.003$$

(iii) We have,

$$0.78 \div 100$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$0.78 \div 100$$

$$= \frac{0.78}{100}$$
$$= 0.0078$$

(iv) We have,

$$432.6 \div 100$$

We know that,

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Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$432.6 \div 100$$

$$\begin{array}{r} 432.6 \\ \hline 100 \\ = 4.326 \end{array}$$

(v) We have,

$$23.6 \div 100$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$23.6 \div 100$$

$$\begin{array}{r} 23.6 \\ \hline 100 \\ = 0.236 \end{array}$$

(vi) We have,

$$98.53 \div 100$$

We know that,

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Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$23.6 \div 100$$

$$= \frac{23.6}{100}$$

$$= 0.236$$

(vi) We have,

$$98.53 \div 100$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$98.53 \div 100$$

$$= \frac{98.53}{100}$$

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Therefore,

$$7.9 \div 1000$$

$$= \frac{7.9}{1000}$$
$$= 0.0079$$

(ii) We have,

$$26.3 \div 1000$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$= 0.9853$$

4. Find:

- (i) $7.9 \div 1000$
- (ii) $26.3 \div 1000$
- (iii) $38.53 \div 1000$
- (iv) $128.9 \div 1000$
- (v) $0.5 \div 1000$

Answer:

(i) We have,

$$7.9 \div 1000$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

|Therefore,

$$26.3 \div 1000$$

$$= \frac{26.3}{1000}$$

$$= 0.0263$$

(iii) We have,

$$38.53 \div 1000$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$38.53 \div 1000$$

$$= \frac{38.53}{1000}$$

$$= 0.03853$$

(iv) We have,

$$128.9 \div 1000$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$128.9 \div 1000$$

$$= \frac{128.9}{1000}$$

$$= 0.1289$$

(v) We have,

$$0.5 \div 1000$$

We know that,

Whenever any decimal number is divided by 10, 100 or 1000 then the decimal point of that number will be shifted towards the left side as many as there are zeros in the number.

Therefore,

$$0.5 \div 1000$$

$$= \frac{0.5}{1000}$$
$$= 0.0005$$

5. Find:

- (i) $7 \div 35$
- (ii) $36 \div 0.2$
- (iii) $3.25 \div 0.5$
- (iv) $30.94 \div 0.7$
- (v) $0.5 \div 0.25$
- (vi) $7.75 \div 0.25$
- (vii) $76.5 \div 0.15$
- (viii) $37.8 \div 1.4$
- (ix) $2.73 \div 1.3$

Answer:

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(i) We have,

$$7 \div 35$$

$$= 7 \div \frac{35}{100}$$

$$= 7 \times \frac{10}{35}$$

$$= \frac{70}{35}$$

$$= 2$$

(ii) We have,

$$36 \div 0.2$$

$$= 36 \div \frac{2}{10}$$

$$= 36 \times \frac{10}{2}$$

$$= 18 \times 10$$

$$= 180$$

(iii) We have,

$$3.25 \div 0.5$$

$$= \frac{325}{100} \div \frac{5}{10}$$

$$= \frac{325}{100} \div \frac{5}{10}$$

$$= \frac{325}{100} \times \frac{10}{5}$$

(iv) We have,

$$30.94 \div 0.7$$

$$= \frac{3094}{100} \div \frac{7}{10}$$

$$= \frac{3094}{100} \times \frac{10}{7}$$

$$= \frac{442}{10}$$

$$= 44.2$$

(v) We have,

$$0.5 \div 0.25$$

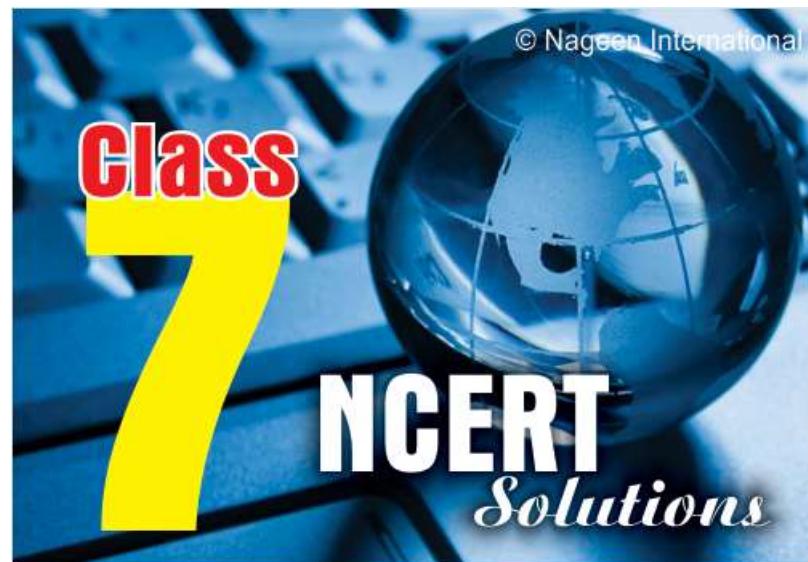
$$= \frac{5}{10} \div \frac{25}{100}$$

$$= \frac{5}{10} \times \frac{100}{25}$$

$$= \frac{10}{5}$$

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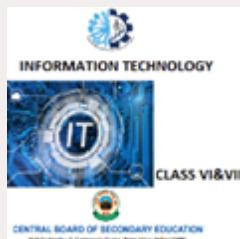
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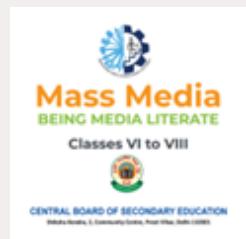
Handicrafts



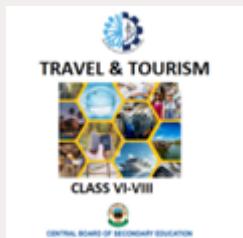
Information Technology



Marketing/Commercial Application



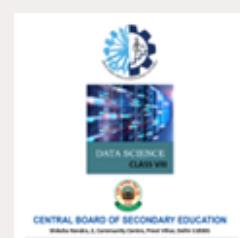
Mass Media - Being Media Literate



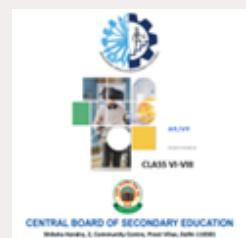
Travel & Tourism



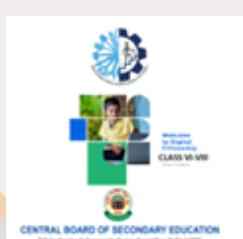
Coding



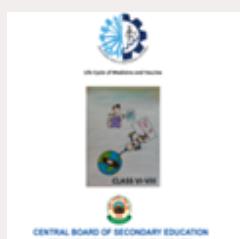
Data Science (Class VIII only)



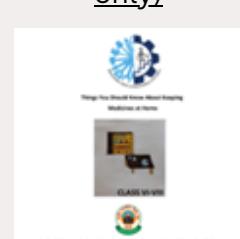
Augmented Reality/Virtual Reality



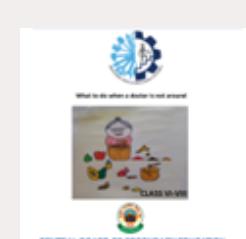
Digital Citizenship



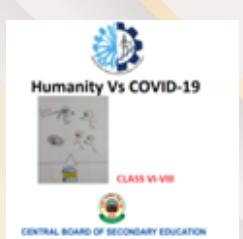
Life Cycle of Medicine & Vaccine



Things you should know about keeping Medicines at home



What to do when Doctor is not around



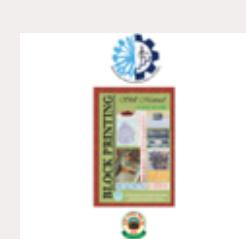
Humanity & Covid-19



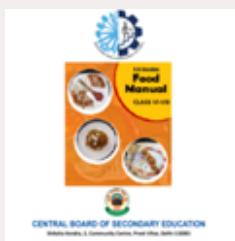
Blue Pottery



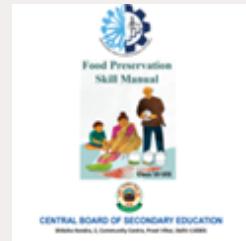
Pottery



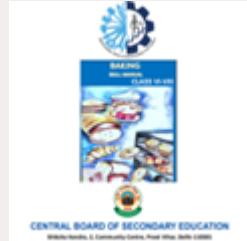
Block Printing



Food



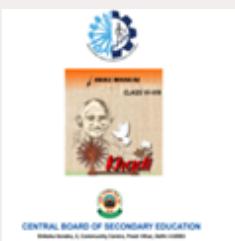
Food Preservation



Baking



Herbal Heritage



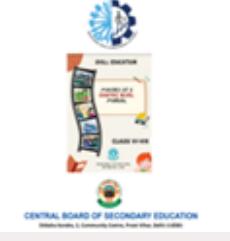
Khadi



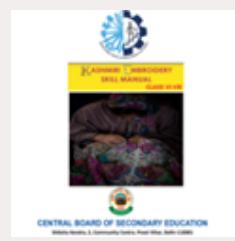
Mask Making



Mass Media



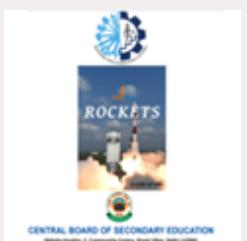
Making of a Graphic Novel



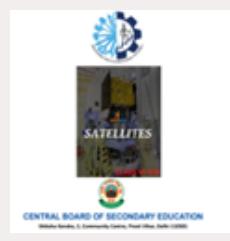
Kashmiri Embroidery



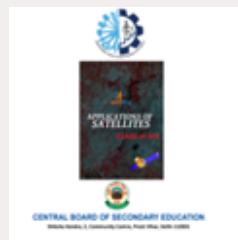
Embroidery



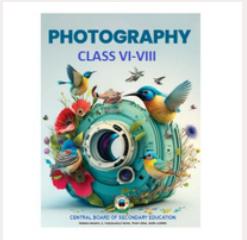
Rockets



Satellites



Application of Satellites

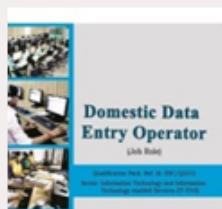


Photography

SKILL SUBJECTS AT SECONDARY LEVEL (CLASSES IX – X)



Retail



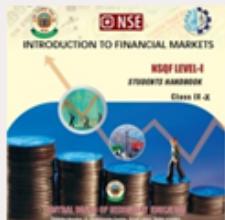
Information Technology



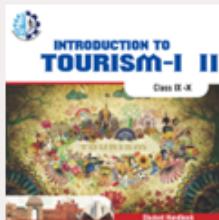
Security



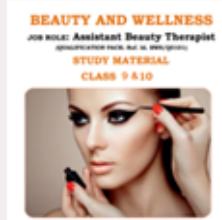
Automotive



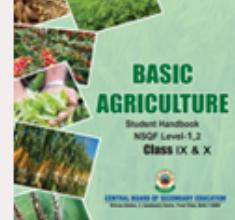
Introduction To Financial Markets



Introduction To Tourism



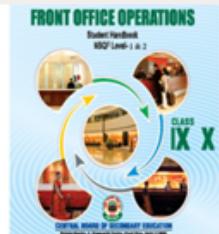
Beauty & Wellness



Agriculture



Food Production



Front Office Operations



Banking & Insurance



Marketing & Sales



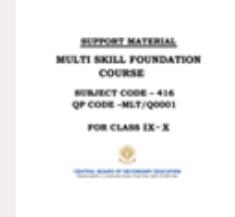
Health Care



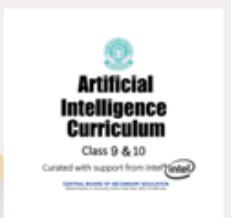
Apparel



Multi Media



Multi Skill Foundation Course



Artificial Intelligence



Physical Activity Trainer



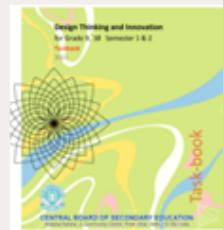
Data Science



Electronics & Hardware (NEW)

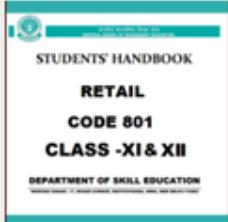


Foundation Skills For Sciences (Pharmaceutical & Biotechnology)(NEW)

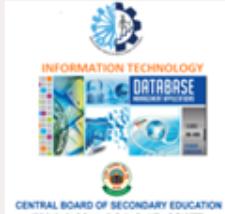


Design Thinking & Innovation (NEW)

SKILL SUBJECTS AT SR. SEC. LEVEL (CLASSES XI – XII)



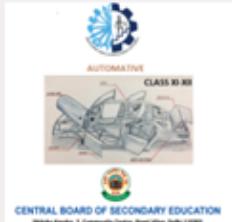
Retail



Information Technology



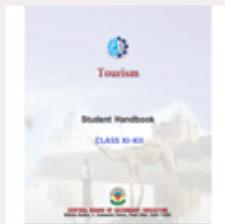
Web Application



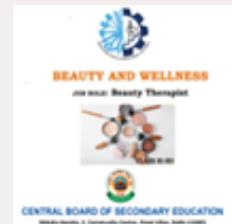
Automotive



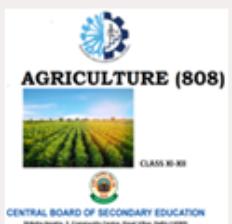
Financial Markets Management



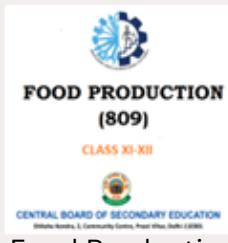
Tourism



Beauty & Wellness



Agriculture



Food Production



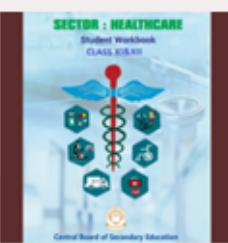
Front Office Operations



Banking



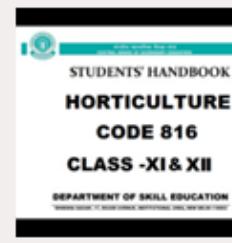
Marketing



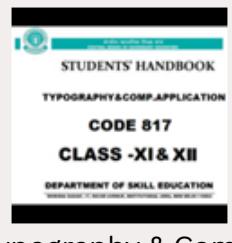
Health Care



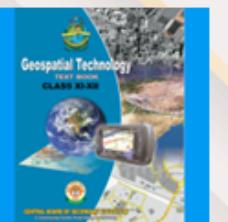
Insurance



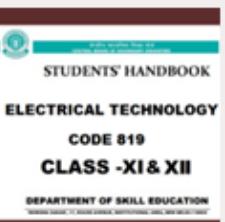
Horticulture



Typography & Comp.
Application



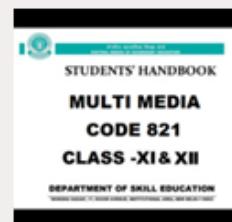
Geospatial Technology



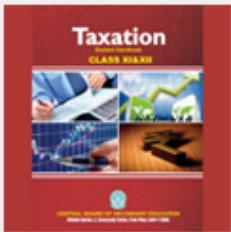
Electrical Technology



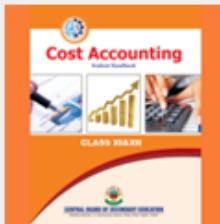
Electronic Technology



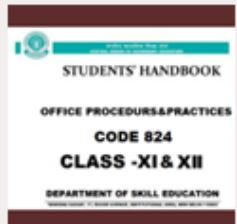
Multi-Media



Taxation



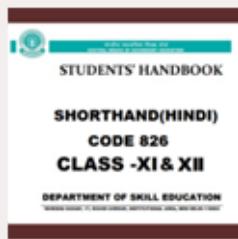
Cost Accounting



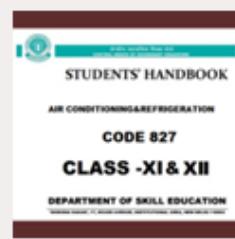
Office Procedures & Practices



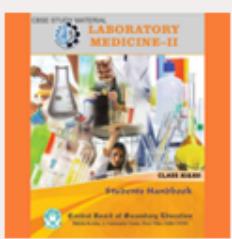
Shorthand (English)



Shorthand (Hindi)



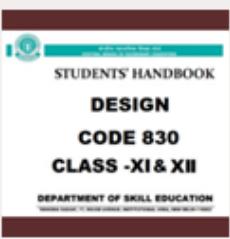
Air-Conditioning & Refrigeration



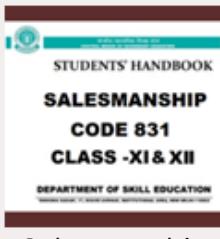
Medical Diagnostics



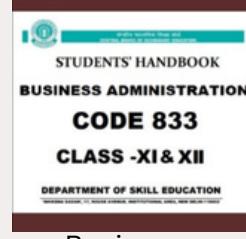
Textile Design



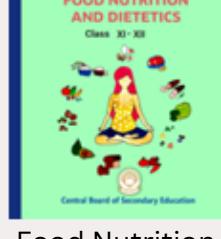
Design



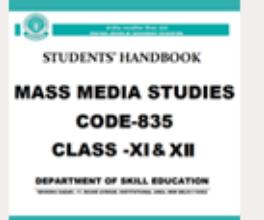
Salesmanship



Business Administration



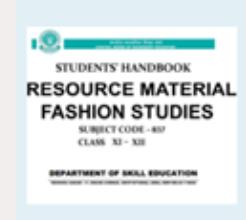
Food Nutrition & Dietetics



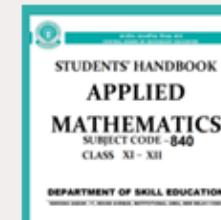
Mass Media Studies



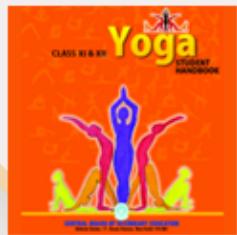
Library & Information Science



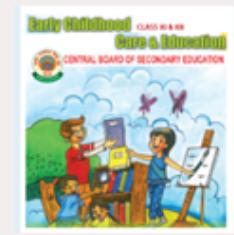
Fashion Studies



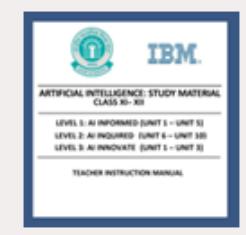
Applied Mathematics



Yoga



Early Childhood Care & Education



Artificial Intelligence



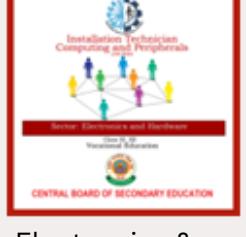
Data Science



Physical Activity Trainer (new)



Land Transportation Associate (NEW)



Electronics & Hardware (NEW)



Design Thinking & Innovation (NEW)

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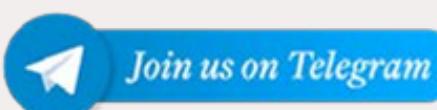
Artifical intelligence



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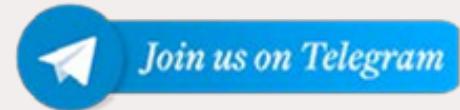
Kindergarten



All classes



Class 1



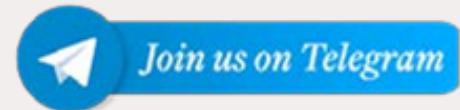
Class 2



Class 3



Class 4



Class 5



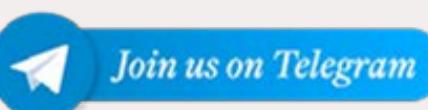
Class 6



Class 7



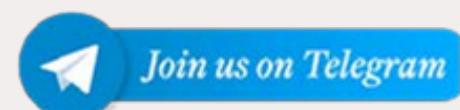
Class 8



Class 9



Class 10



Class 11 (Sci)



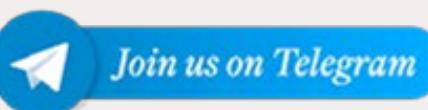
Class 11 (Com)



Class 11 (Hum)



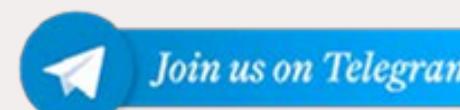
Class 12 (Sci)



Class 12 (Com)



Class 12 (Hum)



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Principal Professional Group



Teachers Professional Group



Project File Group

